

IN THE CLAIMS:

Please add the following new claims:

25. A longitudinally flexible stent for implanting in a body lumen, comprising:

a stent formed from a biologically compatible material and having a first end and a second end and a substantially cylindrical body portion extending from said first end to said second end, said stent being expandable from a first diameter to a second, larger diameter such that said cylindrical body portion deforms upon expansion, whereby said stent does not substantially shorten upon expansion from said first diameter to said second, larger diameter.

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26. A longitudinally flexible stent for implanting in a body lumen, comprising:

a plurality of cylindrical elements which are independently expandable in the radial direction and which are interconnected so as to be generally aligned on a common longitudinal axis;

a plurality of connecting elements for interconnecting said cylindrical elements, said connecting elements configured to interconnect only said cylindrical elements that are adjacent to each other;

an outer wall surface on said cylindrical elements, said outer wall surface having a plurality of outwardly projecting